

KORDZAKHIDYA, M.O.; DZHAVAKHISHVILI, Sh.I.

Evaporation in Georgia. Trudy Inst. geog. AN Gruz. SSR 17:
161-168 '62. (MIRA 16:7)

(Georgia—Evaporation)

KORDZAKHIYA, M.O.; KAVKASIDZE, R.P.

Landscape and climatic classification of the health resorts
of the Georgian S.S.R. Sbor. trud. Gos.nauch.-issl. inst.
kur. i fizioter. 26:127-134 '63. (MIRA 17:5)

KORDZAKHIYA, M.O.; KAVKASIDZE, R.P.; GONGLADZE, N.Sh.

Climate and microclimate of the Mendzhi health resort. Sbor.
trud. Gos. nauch. issl. inst. kur. i fizioter. 26:123-126 '63.
(MIRA 17:5)

KORDZAKHIYA, M.O.; DZHAVAKHISHVILI, Sh.I.

Vertical temperature gradients on the southern slope of
the Caucasus Range within the limits of Georgia. Trudy
Inst. geog. AN Gruz. SSR 18:195-197 '64. (MIRA 17:6)

KORDZAKHIYA, M.O.; DZHAVAKHISHVILI, Sh.I.

Climate of Abkhazia. Trudy Inst. geog. AN Gruz. SSR 14:123-142
'61. (MIRA 18:5)

KAKABADZE, V.M.; KORDZAKHIYA, N.M.

Oxygen removal from gases by means of various manganese containing ores. Trudy GPI [Gruz.] no.5:73-83 '62.

(MIRA 17:10)

CHAD NAVA, 1911, ROBERTA, H.M.

Purification of a nitrogen-hydrogen mixture by removing carbon monoxide. Soob. AN Gruz. SSR 36 no.3:603-609 D '64.

(MIRA 18:3)

1. Institut neorganicheskoy khimii i elektrokhemii AN GruzSSR i Gruzirskiy politekhnicheskii institut im. V.I. Lenina. Submitted April 10, 1964.

KAKABADZE, V.M.; CHAGUNAVA, V.T.; KORDZAKHIYA, N.M.

Removing an admixture of oxygen from gases by using a complex
oxide ore. Soob. AN Gruz. SSR 24 no.4:401-406 Ap '60.

(MIRA 13:7)

1. Gruzinskiy politekhnicheskiy institut im. V.I. Lenina. Pred-
stavleno akademikom R.I. Agladze.

(Gases--Purification)

(Manganese oxide)

L 29908-56 EWT(1)/FCC GW

ACC NR: AT6006488

SOURCE CODE: UR/3061/65/000/018/0037/0057

AUTHOR: Kordzakhia, R. S.

23
B+1

ORG: none

TITLE: Climate of Svanetia

SOURCE: Tiflis. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskii institut. Trudy. no. 18(24), 1965. Voprosy gidrometeorologii (Problems in hydrometeorology), 37-57

TOPIC TAGS: climate condition, climatology, atmospheric circulation, atmospheric precipitation

ABSTRACT: Physico-geographic conditions, solar radiation, and meteorological conditions observed during the last 25 years at meteorological stations in Svanetia were investigated. The meteorological factors under discussion are atmospheric circulation processes, air temperature, atmospheric precipitation, snow cover, air humidity, wind, the coefficient of moistening, mists, thunderstorms, and hail. The data show that, Svanetia, inspite of its relatively small area, shows considerable meteorological variation from west to east, especially in air temperatures as a function of altitude. In accordance with the classification developed by V. P. Keppen and the meteorological observations analyzed by the author, Svanetia can be subdivided into the following cli-

Cord 1/2

KORDZAKHIYA, T. P., KUNCHULIYA, V. G., PRUIDZE, T. V., TSULEYSKIRI, G. V., PICHKHAYA, T.P.,
ASATIANY, V. S., ANASAHVILI, A. Ts., AGEYEVA, A. K., KEKELIDZE, O. V., KITIYA, T. D.,
(USSR).

The Effect of the Mountainous Climate on Biochemical Aspects of Human Blood.

report presented at the 5th Int'l.
Biochemistry Congress, Moscow, 10-16 Aug. 1961.

KORDZAKHIYA, T. P., Cand Med Sci -- (diss) "Materials on the evaluation of the effectiveness of treatment of pulmonary tuberculosis." Tbilisi, 1960. 26 pp; (Tbilisi State Medical Inst); 200 copies; free; (KL, 28-60, 165)

KORDZINSKI, C.

Influence of detonation on the exploitation of internal-combustion engines. p. 73. Vol. 10, no. 3, Mar. 1955. MOTORYZACJA. Warszawa.

SOURCE: East European Accessions List (EEAL), IC, Vol. 15, no. 3, Mar. 1955.

KORDZINSKI, C.

Technological progress in servicing automobiles. P. 229
MOTORYZACJA (Ministerstwo Transportu Drogowego i Lotniczego)
Warszawa Vol. 10, no. 8, August 1955

SOURCE: EEAL IC Vol. 5, no. 7, July 1956

KORZINI, G.

New High-compression engines for passenger cars. p. 314

MOTORYZACJA (Ministerstwo Transportu Drogowego i Lotniczego)
Vol. 10, No. 10, October 1955

Warszawa, Poland

So. East European Accessions List

Vol. 5, No. 1

Jan. 1956

S/262/62/001/001/006/010
I014/I252

AUTHOR: Kordziński, Czesław

TITLE: Conversion of power and fuel consumption of internal combustion engines with atmospheric air intake to ordinary atmospheric conditions

PERIODICAL: Referativnyy zhurnal, Silovyye Ustanovki, no. 1, 1962, 74, abstract 42.1.390 ("Techn motoryz", 1961, no. 4, 127-132, no. 5, 160-162) (Polish)

TEXT: The derivation and analysis are given of the principal formulas used for the conversion to ordinary atmospheric conditions for forced or compressive ignition engines with atmospheric air intake.

[Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824610017-2

KORDZINSKI, Czeslaw, docent dr. ing.

Combustion and formation process of fuel and air mixture in
a two-cycle engine with injection and spark ignition.
Constr mas 15 no.7:481-486 J1'63.

1. Catedra de motare cu ardere interna, Scoala poli-tehnica din Gracovia.

KORDZINSKI, Czesław, dr inz.

Problems of economical lubrication of two-stroke spark
ignition engines. Techn motor 12 no. 6: 161-166 Je '62.

1. Politechnika, Krakow.

KORDZINSKI, W., mgr inz.

With reference to Prof. Wl. Gundlach's paper on "Research work on gas turbine engines." Techn lotn 18 no.8:210-211 Ag '63.

KORDZINSKI, Walerian, mgr inż.

Relations between various definitions of the efficiency of turbine engine components. Inst. lotn prace no. 20:10-19 '63.

KORDZINSKI, Walerian, mgr inz.

Basic properties of two-spool compressors for aircraft gas turbine engines. Techn lotn 18 no.10:269-277 0 '63.

KORDZINSKI, Walerian, mgr inz.

Approximate methods of computing the characteristics of axial compressors. Inst lotn prace no.19:29-40 '63.

CZECHOSLOVAKIA

KOREC, R.; Department of Experimental Pathology of Medical Faculty of
University P.J. Safaryk (Ustav experimentalnej patologic Lekarskej fakulty
Univerzity P.J. Safaryka,) Kosice.

"The Pathological Physiology Curriculum."

Prague, Ceskoslovenska Fysiologie, Vol 12, No 4, July 1963; pp 291-292.

Abstract: Principal criticisms: 1. pathophysiology is taught only 60 lecture
and 84 lab hours and pathology 80/112 whereas anatomy and histology still
160/240 and 80/96 respectively; basic sciences in general are neglected; 2.
"bunching" of exams from many subjects all at once; 3. lack of coordination
as between internal medicine, surgery and obstetrics; 4. reorganization of
tests is necessary in Latin, Russian, political economics, nuclear medicine,
physical medicine and public health; 5. shift pathophysiology to 7th
semester at end of which place exam to precede that in pharmacology.

KORE, A. J.

ZAKHAROV, I.I.; KORE, A.J.

Surgery of intrathoracic goiter. Khirurgia no.2:70-71 F '54.
(MLRA 7:5)

1. Iz Pyarnskoy gorodskoy bol'nitsy Estonskoy SSR (glavnyy vrach
Matus). (Goiter)

KORDZINSKI, Walerian, mgr inz.

Problem of representing the results of tests carried out on
an individual prototype turbine engine. Techn lotn 17
no.8:231-235 Ag '62.

SHADIKYAN, V.S.; KORE, I.D.; TSURKAN, I.G.; KOGAN, M.S.

Improved lubricant for roller bearings used in railroad rolling
stock. Biul.tekh.-ekon.inform. no.11:70-71 '59.
(MIRA 13:4)

(Lubrication and lubricants)

SHADIKYAN, V.S., kand.tekhn.nauk; KORE, I.D., kand.khim.nauk; KOGAN,
M.S., inzh.; TSURKAN, I.G., inzh.

Resistance of lubricating greases to the rotation of railroad
axle-box roller bearings. Vest.TSNII MPS 18 no.6:11-15
S '59. (MIRA 13:2)

(Lubrication and lubricants)

SHADIKYAN, V.S., kand.tekhn.nauk; KORE, I.D., kand.khim.nauk; TSURKAN,
I.G., inzh.; KOGAN, M.S., inzh.

Investigating lubricating greases for axle box roller bear-
ings for rolling stock. Trudy TSNII MPS no.180:4-42 '59.

(MIRA 13:4)

(Lubrication and lubricants)

(Railroads--Rolling stock)

KORE, I.D.; Prinsipal'nyy uchastiyets--SHADIKYAN, V.S.; TSURKAN, I.B.

Results of laboratory and operational testing of experimental lubricants on bearings of the rolling stock in railroad transportation. (MIRA 14:8)
Proizv. smaz. mat. no.6/8:126-132 '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.
(Lubrication and lubricants--Testing) (Railroads--Rolling stock)

117 AND 2ND ORDERS										118 AND 4TH ORDERS									
<p>CA</p> <p>PROCESSES AND PROPERTIES, 1939-1940</p> <p>3-Methyl-2-hexyl-2-cyclopenten-1-one. L. V. Reyn- sora and S. Kury. <i>J. Applied Chem.</i> (U. S. S. R.) 12, 1457-61 (in French, 1461) (1939).—The ketone was syn- thesized as follows: (1) Enanthal → heptyl alc. (in the presence of pyrophoric Ni) → heptyl bromide. (2) Starch → levulinic acid → Et levulinate. (3) Condensation of the heptyl bromide with the Et levulinate. (4) Cycliza- tion of the resulting ester of the HO acid (or more cor- rectly of the mixt. of the ester of the HO acid with the ester of the unsatd. methylundecylic acid and the cor- responding lactone). Heptyl alc. was prepd. by placing in a round bottomed flask 100 g. of 92% enanthal, 300 ml. of 96% EtOH and 100 g. pyrophoric Ni. The hydrogenation was carried out at 55° and the yield was 98%. γ-Methyl- undecalactone, $\text{Me}(\text{CH}_2)_6\text{CMe}(\text{CH}_2)_2\text{CH}_2\text{CO}_2$, was prepd. by adding $\text{C}_6\text{H}_5\text{MgBr}$ to 50 g. of Et levulinate in 2 vols. of abs. ether gradually and with cooling. The resulting upper ether layer was vacuum-distd. (3 mm.) after standing overnight. A small Wurtz flask was charged with 30 g. of the lactone and 15 g. of H_2 (99.9%). (0.17). Heating was carried out at 120 mm. and the temp. of the vapors was 150-160°. The product after 2 vacuum distns. b. 119-21°, n_D^{20} 1.4702, d_4^{20} 0.9086; carbazone, m. 164-5°. 10 references. A. A. B.</p>										<p>10</p>									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
117 AND 2ND ORDERS										118 AND 4TH ORDERS									

KORE, S. I.

KORE, S. I. - "Derivation of Polyisopropylbenzenes and Homologous Alkylbenzyl Alcohols." Sub 26 Jun 52, All-Union Sci Res Inst of Synthetic and Natural Essential Oils. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

Chemical Abst.
Vol. 48
Apr. 10, 1954
Organic Chemistry

4
3
Some 9-substituted derivatives of acridine. G. J. Bras
and S. A. Koz. (S. Ordzhonikidze All-Union Chem. Pharm.
Inst., Moscow). *Zhur. Obshch. Khim.* 23, 848-74 (1953).
To 0.5 ml. EtOH, 18 ml. concd. NH₄OH, and 3 ml. 10%
AgNO₃ was added over 2 hrs. at 70-6° 3 g. powd. 9-diazo-
acetylacridine, yielding on cooling 80% 9-acridinacetaldehyde
(I), decomp. 260-1° (from EtOH), which can be purified by
pptn. from cold acids with alkalis. Refluxed 1.5 hrs.
with 20% HCl, it gave 80% 9-methylacridine, m. 118-10°
(from dil. EtOH); if the hydrolysis is run with 25% KOH in
MeOH 10 hrs. at reflux, only 22% 9-methylacridine is
formed, the rest of the product being 9-acridanone, m. 353-4°.
The amide (1 g.) in 12 ml. 96% AcOH and 1.8 ml. 91%
H₂SO₄, heated to 70°, treated dropwise with 2 ml. 20%
NaNO₂, warmed 5 min., and quenched in H₂O gave after
addn. of dil. KOH an unstated yield of 9-methylacridine.
If (0.85 g.) in 12 ml. 96% AcOH and 1.8 ml. 91% H₂SO₄
treated at room temp. with 2.4 g. powd. NaNO₂, warmed 2
hrs., to 75-80° and quenched in 100 ml. H₂O gave an
amorphous ppt., which was taken up in Na₂CO₃, filtered,
and acidified with dil. HCl, yielding 0.45 g. 9-acridinacar-
boxylic acid, decomp. 279-81° (crude), decomp. 283-4°
(from AcOH). With SOCl₂ in C₆H₆ it yields the acyl chlo-
ride-HCl, decomp. 214-15°, which with NH₄OH gave the
amide, decomp. 263-4° (from EtOH). 9-(Diazocetyl)-
acridine (1 g.), slowly added to 8 ml. boiling AcOH contg. a
little Cu(OAc)₂ and boiled briefly, after all N evolution
stopped, gave 0.65 g. 9-acridinyl acetoxyethyl ketone, m.
183-4° (from EtOH). 9-Acridinyl bromomethyl ketone (3
g.) in dry C₆H₆ and 3.9 ml. piperidine kept in the dark 6 hrs.,
yielded a ppt., which, extd. with H₂O, left 0.1 g. acridanone
(the water-sol. portion being piperidine-HCl). The org.
layer, evapd. and treated with MeOH gave 0.85 g. greenish
solid, m. 127-30° (decompn.), which yields 9-acridanone
with MeOH or C₆H₆. The crude product appeared to be
essentially 9-acridinyl piperidinomethyl ketone. The MeOH
soln. yielded 9-acridinyl Me ketone, isolated as the chloro-
picrate, decomp. 244-5°, and picrate, decomp. 245-6°;
with Et₃NH gave an unknown substance, m. 192-5° (de-
compn.), some 9-acridanone, and 9-acridinyl Me ketone,
isolated as the picrate.
G. M. Kosolapoff

Orientation of the *tert*-butyl group upon its introduction into an aromatic ~~derivative~~ ¹².
 Below, and S. A. Kere, *Zhur. Obshch. Khim.* 24, 1875 (1953); cf. Smith and Perry, *C.A.* 33, 6257. The conception about the predominant influence of the nature of the catalyst employed in alkylations of substituted benzenes is not supported in the cases of introduction of CMs group into C₆H₆ or *m*-xylene; these tend to form sym. structures in all instances. Treatment of *m*-xylene with *iso*-BuOH in the presence of H₂SO₄ gave 40% *3,5*-Me₂C₆H₃CM₃, b. 204-4.5°, n_D²⁰ 1.4692, d₄ 0.8690; *trimetro deriv.*, m. 111-12°, benzyl alc. derived from this, m. 98-9°. No other isomer was found in the alkylation mixt. The hydrocarbon suffered no change on being heated with AlCl₃ 3.5 hrs. at 100°. Chloromethylation with formalin and concd. HCl in the presence of H₂SO₄ at 50° gave 36.3% 2,6,4-Me₃(CM₃)C₆H₃Cl, b. 118-20°, n_D²⁰ 1.5301, d₄ 1.0034, along with [2,4,6-Me₃(CM₃)C₆H₃Cl]₂, m. 134-5°. The above products formed from the starting material prepd. by the H₂SO₄ method; if the AlCl₃-treated hydrocarbon was used, the yield of the chloromethyl deriv. rose to 43.6%, b. 130-7°, n_D²⁰ 1.5290. Heating the chloromethyl deriv. with NaOAc in the presence of pyridine 3 hrs. to 125°, and 4 hrs. at 125°, followed by 0.5 hr. after addn. of H₂O at 80°, gave 67% corresponding acetate, b. 127-9°, n_D²⁰ 1.5059, d₄ 0.8835; the acetate prepd. from AlCl₃-treated hydrocarbon was obtained similarly, b. 151-2°, n_D²⁰ 1.5064. Sapon. with 10% alc. NaOH gave the same benzyl alc., m. 98-9°. Alkylation of C₆H₆ (550 g.) with 250 g. *iso*-BuOH by addn. over 1 hr. of 1400 g. H₂SO₄ at 60° followed by 6 hrs. at 70° gave 520 g. liquid material and 116 g. solid, isolated by steam distn. Distn. gave 121 g. PhCM₃, b. 165-8°, n_D²⁰ 1.4911, d₄ 0.8636, along with some 20 g. *p*-ClH₂(CM₃)₂, m. 77-8°. Reaction of 20 g. C₆H₆, 10 g. *iso*-BuCl and 5 g. AlCl₃ gave some 8 g. Me₃CM₃ and an unsatd. yield of *p*-ClH₂(CM₃)₂, m. 77-8°. Heating the latter with AlCl₃ up to 6 hrs. at 100°, with or without passage of dry HCl, gave much tar along with a small amount of liquid material which boiled over a wide range; this could not be identified since a typical fraction, b. 93-5°, n_D²⁰ 1.4940, d₄ 0.8488, was not homogeneous; on standing it deposited *p*-ClH₂(CM₃)₂, m. 76-7°.

G. M. Kresolupoff

All-Union Sci.-Res. Inst. Synthetic & Natural Essential Oils

Kore, S.A.
RODIONOV, V.M.; ~~SELOV, V.N.~~; KORE, S.A.

Orientation of a tert-butyl group on introduction into an
aromatic nucleus. Trudy VNIISNDV no.2:15-17 '54. (MLRA 10:7)
(Butyl group) (Aromatic compounds)

KORE, S.A.

USSR/Organic Chemistry, Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya No 6, 1957, 19108

Author : Kore S.A., Rodionov V.M., Belov V.N.,

Inst : _____

Title : The Dependence Between the Structure of Organic Compound and its Scent. Publication 5. Dimethylol Derivative of Diisopropylbenzene and its Acetate.

Orig Pub: Tr. Vses. N. -I. In-ta Sintet. and Natur. Dushistykh Veshchestv, 1954, vyp. 2, 21-22.

Abstract: At the chlormethylation of $(\text{iso-C}_3\text{H}_7)_2\text{C}_6\text{H}_4$ (I) with formaline and HCl (acid) in the presence of H_2SO_4 ClCH_2 -I and a small amount of $(\text{ClCH}_2)_2$ -I (Ia), m.p. 131.5° (from alcohol) is formed. Yield Ia is increased with the increased amount of H_2SO_4 . Ia at the action of CH_3COONa in the presence of a small amount

Card : 1/2

KORE, S.A.; KUSTOVA, S.D.; BELOV, V.N.

Intermediate products of the synthesis of odorous substances.

Report No.9: Converting primary chlorides to corresponding aldehydes by the Kröhnke method. Trudy VNIISNDV no.4:39-41

'58.

(MIRA 12:5)

(Aldehydes) (Perfumes, Synthetic)

KORE, S.A.; BELOV, V.N.

Relation between the structure of organic compounds and their
odor. Report no.6: Production of 2,4,5-triisopropylbenzaldehyde.
Trudy VNIISNDV no.4:41-44 '58. (MIRA 12:5)
(Perfumes, Synthetic) (Benzaldehyde)

KORE, S.A.

Production of diacyl peroxides. Trudy VNIISNDV no.4:200-201
'58. (MIRA 12:5)
(Peroxides)

KORE, S.A., kand.khim.nauk; RUDOL'FI, T.A., kand.khim.nauk; REYNGACH,
B.Ya.

New constituents of compositions having a jasmine odor,
Masl.-zhir.prom. 25 no.11:27-29 '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteti-
cheskikh i natural'nykh dushistykh veshchestv.
(Odorous substances)

RUDOL'FI, T.A.; KORE, S.A.; REYNGACH, B.Ya.

Paper chromatography of certain organic acids. Trudy VNIISNDV
no.5:74-77 '61.

(MIRA 14:10)

(Paper chromatography)
(Organic compounds)

KORE, S.A., kand.khimicheskikh nauk; SHEPELENKOVA, Ye.I.; CHERNOVA, Ye.M.,
19zh.

Acetals and their identification in a thin layer by the
chromatographic method. Masl.-zhir.prom. 28 no.3:32-33 Mr '62.
(MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i
natural'nykh dushistykh veshchestv.

(Acetal) (Chromatographic analysis)

KORE, S.A.; REYNGACH, B.Ya.

Paper chromatography of some phenols. Trudy VNIISNDV no.6:120-121
'63. (MIRA 17:4)

KOREC, A.

Fully attacking the problem of planning in factories. p. 241. (PRZEMYSŁ ROLNY I SPOZYWCZY, Vol. 8, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

KOREC. A.

Technicians must join the fight for reduction of production cost. p. 244.
(PRZEMYSŁ ROLNY I SPOŻYWCZY, Vol. 8, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.
1954, Uncl.

Korec, J.

6

Condensation method for determining petroleum hydrocarbons in the air. V. Podolský, J. Janok, and J. Korec. Oblastní Ústav Hyg. Práce, Bratislava, Czech. J. Pracovní Lékařství 8, 121-3 (1966). Method and app. are described for detg. the total sum of gaseous hydrocarbons after removing water with CaCl_2 by weighing their condensate in glass containers cooled by solid CO_2 in MeOH. The mean error is 4.8% at a speed of suction of 1 l./8 min. and 0.5% at a rate of 1 l./10 min. L. I. Urbánek

chem

PM

KOREC, Ladislav

Low frequency analysis. Sdel tech 12 no.4:128 Ap '64.

KOREC, R.

Teoretická baza patogenezy, symptomov a terapie diabetes mellitus.
[Theoretic basis for pathogenesis, symptoms and therapy of diabetes
mellitus] Bratisl. lek. listy 30:4-5 Apr-May 50 p. 325-31

1. Of the Institute of General and Experimental Pathology of the Branch
of the Medical Faculty of Slovak University in Kosice.

KOREC, RUDOLF

"Metabolizmus. Bratislava, Vydavateľstvo Slovenskej akadémie vied, 1955. 230 p.
(Metabolism bibl., diagrs., graphs, index tables)"

P. 230 (Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 7, July 1958

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. T
The Pancreas.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13009

Author : Korec, R,

Inst : ~~Univ. of Medicine~~

Title : Influence of Cystine and Indole-3-Acetic Acid on
Insulin-Induced Hypoglycemia under Experimental
Conditions.

Orig Pub : Bratisl. lekar. listy, 1957, 2, No 10-11, 613-617

Abstract : The experiment was conducted on 34 healthy rabbits
weighing 1.5 - 4.5 kg and 37 rats; alloxanic diabetes
was induced in 21 of the latter. After determination of
glycemia (G) by fasting blood sugars 5 ml of a 5% solu-
tion of NaHCO_3 was injected into the rabbits and 5 mi-
nutes later 1 unit of insulin (I); G was determined
after 30 - 180 minutes. On the 2nd day these same rab-
bits were injected intravenously with 0.25 and 0.5 of

Card 1/2

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. T
The Pancreas.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13009

either 1 millimol/kg of cystine (II) or indole-3-acetic acid (III) and 5 minutes later with 1 unit of I. II and III alleviated the effect of I somewhat, but injection of a dosage of 0.5 mmol/kg without I induced in the rabbits and rats with a severe form of diabetes an insignificant decrease of G, but in normal rats with a mild form of diabetes there was quite a lessening of G. --
V.V. Yazvikov

Card 2/2

- 72 -

KOREC, R.; HERKELOVA, L.

The mechanism of hypoglycemic action of indole-3-acetic acid and of sulfanilyl carbamide (invenol). Cesk. fysiол. 7 no.3:266-267 May 58.

1. Ustav pre vseob. a exper. patologia Lekarskej fakulty University Komenskeho v Kosiciach.

(ANTIDIABETICS, eff.

carbutamide, with indole-3-acetic acid (Cz).

(INDOLACETIC ACID, eff.

hypoglycemic, with carbutamide (Cz))

(BLOOD SUGAR, eff. of drugs on,

indolacetic acid alone & with carbutamide (Cz))

KOREC, R.; HEUKELOVA, L.

Lesions of alpha-cells of the islands of langerhans and hypoglycemic effect of indole-3-acetic acid and sulfanilylbutylcarbamide. Cesk. fysiол. 7 no.5: 492-493 Sept 58.

1..Ustav pre vseobecnu a experimentalnu patologiu Lek. fak. UK, Kosice.

(IDOLACETIC ACID, effects,

islands of langerhans alpha-cell destruction & hypoglycemic eff. in animals (Cz))

(CARBUTAMIDE, effects, same)

(ISLANDS OF LANGERHANS, eff. of drugs on, carbutamide & indolacetic acid, destruction of alpha-cells in animals (Cz))

KORNC, R.

A method of temporary ligation. Cesk. fysiolo. 8 no.3:211-212 Apr 59.

1. Ustav pre vseobecnu a experimentalnu patologiu Lekarskej fakulty
UK v Kociciach. Prednesene na III. fyziologickych dnoch v Brne dna 14.
1. 1959.

(BLOOD VESSELS, physiol.
temporary ligation in exper. animals (Cx))

KOREC, R.

Effect of insulin on glycemia studies by means of a temporary and permanent method of ligation of the v. portae and v. hepaticum in rats. Cesk. fysiол. 9 no.1:28 Ja 60.

1. Ustav pre vseobecnu a experimentalnu patologiu lek. fak. KU, Kosice.

(INSULIN pharmacol.)

(PORTAL VEINS physiол.)

(HEPATIC VEIN physiол.)

KOREC, R.; Technická spolupráca LEHOČKA, I.

Subtotal pancreatectomy in rats. Cas. lek. česk. 101 no.24/25:757-759
22 J. '62.

1. Ústav pre všeobecnú a experimentálnu patológiu lekárskej fakulty
Univerzity P. J. Šafárika v Košiciach, prednosta doc. dr. R. Korec.

(PANCREAS surgery)

KOREC, R.; SIOFRANKOVA, A.

Free and bound glucose in the urine. Cas. lek. cesk. 102 no.8:
219-220 22 F '63.

1. Ústav pre všeobecnú a experimentálnu patológiu Lekárskej fakulty
UPJS v Kosíciach, prednosta doc. dr. R. Korec.
(GLYCOSURIA) (CHEMISTRY, ANALYTICAL) (OXIDASES)
(DIABETES MELLITUS) (URINE)

KOREC, R.; technická spolupráca LEHOČKA, I.

Estimation of glucose by the glucose oxidase method. Cas. lek. česk.
102 no.6:152-155 8 F '63.

1. Ústav pre všeobecnú a experimentálnu patológiu lekárskej fakulty
UPJS v Košiciach, prednosta doc. dr. R. Korec.
(BLOOD SUGAR) (OXIDASES) (BLOOD CHEMICAL ANALYSIS)
(GLUCOSE)

I/I

Korec, S.

CZECHOSLOVAKIA/Safety Engineering. Sanitation Engineering. L
Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10701

Author : Podolsky, V. and Korec, S.

Inst : Not given

Title : Concerning Sanitary Precautions During the Handling of Gasoline

Orig Pub: Bezpecn. a hyg. prace, 1956, Vol 7, No 7, 209-211
(in Slovak)

Abstract: Hydrocarbon vapor concentrations of 200 and 226.3 mg/liter have been measured during the cleaning of containers and storage tanks used for the storage of gasoline (G) and other petroleum products (the maximum permissible G concentration according to American standards is 2-4 mg/liter and according to Soviet standards of 0.3 mg/liter). The vapor concentration decreases rapidly during ventilation. A new method is proposed for the determination of the concentration of

Card 1/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824610017

CZECHOSLOVAKIA/Safety Engineering. Sanitation Engineering. L
Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10701

Abstract: G vapors in the air; the method is based on the condensation of the vapors at low temperatures: the air is drawn through a glass coil at the lower end of which is attached a receiver for the liquid G. During sampling the condenser is immersed in a vacuum insulated methyl alcohol bath which is maintained at a temperature of -70 to -74° by CO₂ gas. The water vapors are adsorbed by granulated CaCl₂. The condensed G is weighed. The above-described method is more convenient, simpler and quicker than the potentiometric method.

Card 2/2

KOREC, S.

- Zvezdava, Bratislava: Slovenske literarne listy, vol. 1, no. 6, 1962
Copyright by the Publishing House of the Slovak Academy
of Sciences (Vydavateľstvo Slovenskej akadémie vied), 1962.
1. "On the Vaccination in Acute Otitis Media Induced by Deep
Injections of the Vaccine of the Institute of Experimental Medicine of the
Slovak Academy of Sciences (University of Medicine and Pharmacy, Bratislava)
(Abstracts of the Institute of Experimental Medicine of the
Slovak Academy of Sciences) (English summary) pp 491-492 (English summary).
 2. "On the Dynamic Changes of Transaminase Activity in Toxic Injury
to the Liver," by J. HROBIL, A. JAVORSKY and J. LADISLAV, from the
No. 1 Clinic of Internal Medicine (I. Interná klinika) at the Faculty
of Medicine of Comenius University (Johanna Evangelina University,
Košice) in Bratislava headed by (professor) Professor H. G.
Kocak (Kocak, H.) and from the Institute of Physiological and
Pathological Medicine at the Medical Faculty of Comenius University
in Bratislava headed by Docent H. HROBIL, MD. pp 493-495
(English summary).
 3. "The Role of Psychic Factors in the After-Treatment of Postoperative
Hemorrhage," by J. HROBIL, from the Clinic of Orthopedics (Ortopédia)
at the Medical Faculty of Comenius University in
Bratislava, headed by J. HROBIL, corresponding member of the
Slovak Academy of Sciences; pp 496-497 (English summary).
 4. "On the Importance of the Psychosomatic Component in Surgery," and
"Surgical Diseases," by J. HROBIL of the Department of Clinical Physio-
logy (Fakulta klinická fyziológia) at the Institute of Experimental
Medicine of the Slovak Academy of Sciences; director J. HROBIL,
corresponding member of the Slovak Academy of Sciences; pp 498-499
(English summary).
 5. "Last Results of the Surgical Treatment of Pulmonary Tuberculosis
by Thoracoplasty," by V. VACEK, J. LADISLAV and J. HROBIL, from the First
Department of Thoracic Surgery (Prvá chirurgická klinika) at the Faculty
of Medicine of Comenius University (Johanna Evangelina University)
in Bratislava, headed by (professor) Professor J. VACEK, MD, and from the
Department of Thoracic Surgery, University of Medicine and Pharmacy, Bratislava
(Fakulta medicíny a farmácie) headed by Docent S. KOCAC, MD.
pp 500-501 (English summary).
 6. "The Anatomical Structure," Docent S. HROBIL, MD, chief (professor),
and J. HROBIL, of the Anatomical and Physiological Clinic (Anatomicko-
fyziológická klinika) at the Medical Faculty of Comenius University in Bratislava,
headed by (professor) Professor J. HROBIL, MD, corresponding member of the
Slovak Academy of Sciences; pp 502-503 (English summary).

KORECEK

All technicians should be informed on new techniques. Prum
potravin 13 no.5:275 My '62.

Mr. C. G. Smith, S. C., Inc.

511-master steel television tower. Mont. 1 spots, pub. v
steel. 23 ac. 7231-22 31 161. (C111 14.7)
(Cane Girardeau, Missouri--Television--Transmitters and transmission)

①
CZECHOSLOVAKIA/CANADA

KORECKY, B., BEZNAK, M., KORECKA, M.; Institute of Pathological Physiology, Pediatric Clinic (Ustav Patologicke Fysiologie Fak. Detsk. Lek.), Prague; Department of Physiology, University of Ottawa.

"Changes in the Maximum Performance of the Lung-Heart Preparation in Rats after Hypophysectomy and its Preparation by Administration of Some Substituting Hormones."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 116-117

Abstract: In animals hypophysectomy reduces minute volume, heart beat and blood pressure. Administration of thyroxin improves most of the factors, while a combination of thyroxin and growth hormone nearly normalizes the conditions. The influence on an isolated heart was very similar, but there was no cumulative effect of the growth hormone and thyroxin. 1 Western reference. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

KORECKI, K.

"Iron as a Harmful Addition in Aluminum Alloys." Biuletyn. p.17
(PRZEGLAD ODLEWNICTWA Vol. 3, no. 9, Sept. 1953 Krakow, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

KORECKI, K.

3763

321.74.041 : 669.715.018 : 2

Korecki K. Influence of Chemical Composition and of Casting and MG
Pouring Conditions of the AL4 Alloy on Mechanical Properties and Micro-
structure of Sand Castings.

„Wplyw składu chemicznego i warunków topienia oraz odlewania
stopu AL4 na własności mechaniczne i mikrostrukturę odlewów pias-
kowych". (Prace Inst. Odlewn. No. 1), Warszawa, 1934, PWT, 15 pp.,
31 figs., 9 tabs.

Casting and pouring technology employed in relation to the AL4
aluminium alloy create, together with its chemical composition, con-
ditions which encourage a number of structural defects, determining
the mechanical properties of castings. Data gathered during the inves-
tigations carried out in industry and concerning the inadequate ten-
sile strength (Rr) and elongation (a5) of castings made in autoclave,
made possible more exact enquiries into the nature of this alloy and
the definition of the principal agents causing the particular defects.
Discussion is entered concerning the effect on mechanical properties
of magnesium, iron and manganese content, of the structure of eutectic
aluminum pigs, and of the shape and type of castings. The conditions for
forming Fe-Mn-Al-Si crystal segregation, silicon crystals segregation,
Mg₂Si segregation and the triple eutectic network of Al-Si-Mg₂Si are
given together with directions concerning casting and pouring techno-
logy and practical preventive measures.

Of

Korecki, Kazimierz

POL.

Influence of iron and zinc on the technological properties of pressure die castings made of aluminum alloy. Kazimierz Korecki and Tadeusz Welkens. *Przegląd Odkrywczości* 4:251-2 (1954). — Contrary to a general opinion that presence of Fe and Zn impurities in Al alloy is detrimental it was found that in certain cases their presence is useful. Al alloy, grade LA 2A (Polish designation) contg. Si 8-10, Cu 0-0.3, Mg 0.2-0.4, Mn 0.3-0.5, Zn 0-0.3, and Fe 0-0.6% after its Zn and Fe content was increased to 0.6-1.0 and 0.6-1.0, resp., was best suited for die castings. Better machining properties, tendency not to develop cracks, and better external aspects characterize the latter alloy.

Frank J. Hendel

①

M. J. Hendel

KORECKI, K.

KORECKI, K.; LECH, Z. "Casting aluminum alloys from scrap. Biuletyn."
Przegląd Odlewnictwa, Krakow, Vol 4, No 5, May 1954, p. 9

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

KORECKI, K.

Some research work and investigations on light alloys made by the Foundry Research Institute during the ten-year period of its existence. p. 32.
(INZYNIERIA I BUDOWNICTWO, Vol. 6, No. 1/2, 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

POLISH TECHNICAL ABSTRACTS

Vol. 26, Nr. 2, 1957

¹⁸ ¹⁸ ¹⁸
Lech Z. Koracki K. Casting Scrap Magnesium Alloys

140 "Odlewnikowe stopy magnezu ze zlozami". Przegląd Odlewnictwa, No. 7, 1954 (Bul. Inf. Inst. Odlewn.) pp. 14-16, 4 tabs.

The problem of utilizing scrap magnesium alloys in the manufacture of castings for non-military purposes. The object of this investigation was to find methods for the treatment of existing reserves of scrap for producing the alloys in pigs, and, in relation to such reserves, to define production possibilities as affecting both quality and quantity. The investigation was based on the Soviet standard specification GOST 2886-44. The best results were achieved with the MZA alloy which can be obtained, when the composition of the charge is chosen correctly, by once melting scrap No. 3505, and by twice melting unmarked scrap and such as is marked with numbers 3504, 3506, 3510 and 3520. To prepare scrap for melting, it must be cleaned of non-metallic impurities (sand) and all metallic parts (reinforcements, screws, etc.) must be removed.

KORBEKI KAZIMIERZ

✓1035* (Polish): Exothermic mixtures for the casting of
ferrous and non-ferrous metals. Kazimierz Korbecki, Andrzej Wel-
kous. Przegląd Chemiczny, v. 6, no. 9, Sept. 1950, p. 292-300.
Exothermic mixtures for non-ferrous metals, nodular cast iron,
and cast steel are obtained by an aluminothermic reaction.

KOPECKI, K.; WELKENS, T.

Exothermic masses for feeders. (To be contd.). p. 178.

PRZEGLAD ODLEWNICTWA. Krakow, Poland. Vol. 9no. 6, June, 1959.

Monthly List of East European Accessions (EEAI), IC, Vol. 8, no. 9, September, 1959.
Uncl.

KORECKI, K. : WEKLENS, T.

Exothermic Materials for Feeders, p. 218.

PRZEGLAD ODLEWNICTWA (Stowarzyszenie Techniczne Odlewikow Polskich)
Krakow, Poland
Vol. 9, no. 7, July 1959.

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 11,
November 1959.
Uncl.

LECH, Zbigniew; KORECKI, Kazimierz

Selection of the method of die casting of aluminum alloys tensile test bars. Prace inst odlewn 10 no.2:98-114 '60.

1. Zaklad Metali Niezelaznych, Krakow.

WELKENS, Tadeusz, mgr inż.; KORECKI, Kazimierz, doc. mgr inż.; TARAN,
Jerzy, mgr inż.

Economizing in iron casting by using the method of exothermic
risers. Przegl odlew 12 no.1:14-20. Ja '62;

KORECKY, B.

Changes of pulmonary elasticity in ontogenesis in rats. Cesk. fysiол.
7 no.3:214-215 May 58.

1. Odd. patologické fysiologie fak. detského lek., Praha.

(LUNGS, physiол.

elasticity, age factor in young rats (Cz))

(AGING, eff.

on lung elasticity in young rats (Cz))

POUPA, O.; KORECKY, B.

Enteral oxygen insufflation in anoxia in young animals. *Cesk. fysiol.*
8 no.3:237-238 Apr 59.

1. Laborator fysiologie a patofysiologie premeny latek CSAV a Oddeleni
patologicke fysiologie detskeho lekarstvi, Praha. Predneseno na III.
fysiologickych dnech v Brne dne 15. 1. 1959.

(ASPHYXIA NEONATORUM, exper.

enteral oxygen insufflation (Cz))

(OXYGEN, eff.

enteral insufflation in exper. asphyxia neonatorum (Cz))

KORECKY, B.;POUPA, O.

Variations in metabolic findings following enteral insufflation
of oxygen in younger or older than 14 days. Cesk. fysiол. 8 no.3:
416-417 S '59

1. Oddeleni patologicke fysiologie Fak. detek. lek. KU, laborator
fysiologie a patofysiologie premeny latek CSAV, Praha.
(ANOKIA)
(OXYGEN off.)

KORECKY, B.; MACEK, M. za technicke spoluprace A. Machanove

On disorders of intra-alveolar gas mixing in children. Cesk. pediat.
14 no.11;1002-1005 November 59.

1. Oddeleni patologicke fyziologie fakulty detskeho lekarstvi,
prednosta doc. MUDr. V. Zelenka I. detska klinika, prednosta prof.
MUDr. J. Svejcar.
(RESPIRATION)

KORECKY, B.; MACEK, M.

A simple method for the determination of intra-alveolar gas mixing in children. Cesk. pediat. 14 no.11:996-1001 November 59.

1. Oddeleni patologické fyziologie fak. detskeho lekarstvi, prednosta doc. MUDr. V. Zelenka I. detska klinika, prednosta prof. MUDr. J. Svejcar.

(RESPIRATION, funct. & tests)

KORECKY, B.; POUPA, O.

Use of intestinal oxygen insufflation as a resuscitation method in a phase of clinical death consecutive to severe hypoxia in young rats. Cesk.fysiol. 9 no.3:243 My '60.

1. Ustav patologické fyziologie fak. lékař. KU, Laborator fyziologie a patofyziologie přeměny látek CSAV, Praha
(ANOXIA exper)
(RESUSCITATION)
(OXYGEN)

Korecky, B.; VAVRA, J.; MYDILIL, V.

Simplified construction for body plethysmograph for newborn and small infants. *Cesk.fysiol.* 9 no.6:559-561 N '60.

1. Oddeleni patofysiologie fak.detsk.lek. KU, Laborator fysiologie a patofysiologie premeny latek CSAV, I. detska klinika lek.fak. KU, Praha.

(PLETHYSMOGRAPHY equip & supply)

MACEK, Milos; KORECKY, Bohuslav[?]^{*}; za spoluprace: NOVAKOVE, Marie; KULIKOVE, Evy

Ventilation test in asthmatic children. Cesk.pediat.15 no.6/7:604-609
J1'60.

1. I. detska klinika KU v Praze, prednosta prof. MUDr. Josef Svejcar
Katedra farmakologie a experimentalni patologie, prednosta prof.
MUDr. Helena Raskova.

(ASTHMA in inf & child)
(RESPIRATION physiol)

* Probably Borivoj

MYDLIL, V.; VAVRA, J.; KORECKY, B.

Investigation of the respiratory rate of the tidal and minute volume by the mask method and by a body plethysmograph in newborn infants. Acta univ. carol. [Med] no.2:195-202 '61.

1. I detska klinika fakulty detskeho lekarstvi University Karlovy, prednosta prof. MUDr. J. Svejcar Oddeleni patologicke fysiologie fakulty detskeho lekarstvi University Karlovy, prednosta doc. MUDr. V. Zelenka.

(PLETHYSMOGRAPHY in inf & child)
(RESPIRATION in inf & child)
(INFANT NEWBORN physiol)

MACEK, M.; NOVAKOVA, M.; KORECKY, B.

Proposal for a new expiratory index received from the curve of expiration in timed vital capacity of the lungs. Cesk. pediat. 17 no.1:38-43 Ja '62.

1. Oddeleni telovychovneho lekarstvi katedry nemocnici pediatrie, prof. dr. J. Svejcar Katedra farmakologie a experimentalni patologie, predn. prof. dr. H. Raskova.

(RESPIRATION physiol)

KORECKY, Borivoj; POUPA, Otakar; technicka spoluprace MIKOVA, M.

Experimental basis for the use of enteric insufflation of oxygen as a resuscitation method in asphyxia neonatorum. Cas. lek. cesk. 101 no.21:660-663 '62.

1. Oddeleni patologické fyziologie fakulty detskeho lékařství KU v Praze, přednosta prof. dr. O. Poupa Fyziologický ústav CSAV, přednosta prof. dr. Z. Servit.

(ASPHYXIA NEONATORUM experimental)
(OXYGEN ther)

RAKUSAN, H.; KORECKY, B.; ROTH, Z.; POUPA, O.

Development of the ventricular weight of the rat heart with special reference to the early phases of postnatal ontogenesis. *Physiol. Bohemoslov.* 12 no.6:518-525 '63.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University, Institute of Industrial Hygiene and Occupational Diseases, Department of Physiology and Pathophysiology of Metabolism, Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(MYOCARDIUM) (GROWTH)

KORECKY, B.; RAKUSAN, K.; POUPA, O.

The effect of anaemia due to iron deficiency during early postnatal development of the rat on growth and body composition later in life. *Physiol. Bohemoslov.* 13 no.1:72-77 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

*

POUPA, O.; KORECKY, B.; KROFTA, K.; RAKUSAN, K.; PROCHAZKA, J.

The effect of anaemia during the early postnatal period on vascularisation of the myocardium and its resistance to anoxia. *Physiol. Bohemoslov.* 13 no.3:281-287 '64

1. Institute of Physiology, Czechoslovak Academy of Sciences
and Institute of Pathological Physiology, Faculty of Paediatrics,
Prague.

POUPA, O.; RAKUSAN, K.; KROFTA, K.; KORECKY, B.; PROCHAZKA, J.

On some developmental and adaptive changes in the mammalian heart.
Cesk. fysiол. 13 no.4:391-395 J1 '64.

1. Fysiologicky ustav Ceskoslovenske akademie ved, Ustav pathologicke fysiologie fak. detsk. lek. Karlovy University, Praha.

KORECKY, B.; RAKUSAN, K.; POUPA, O.

The weight and chemical composition of the heart of rats suffering from sideropenic anaemia in the early postnatal period. *Physiol. Bohemosl.* 13 no.5:439-445 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

CZECHOSLOVAKIA/CANADA

~~APPROVED FOR RELEASE: 06/14/2000~~ M; ~~CIA-RDP86-00513R000824610017~~

Physiology, Pediatric Clinic (Ustav Patologicke Fysiologie Fak. Detsk. Lek.), Prague; Department of Physiology, University of Ottawa.

"Changes in the Maximum Performance of the Lung-Heart Preparation in Rats after Hypophysectomy and its Preparation by Administration of Some Substituting Hormones." *S/P*

Prague, *Ceskoslovenska Fysiologie*, Vol 15, No 2, Feb 66, pp 116-117

Abstract: In animals hypophysectomy reduces minute volume, heart beat and blood pressure. Administration of thyroxin improves most of the factors, while a combination of thyroxin and growth hormone nearly normalizes the conditions. The influence on an isolated heart was very similar, but there was no cumulative effect of the growth hormone and thyroxin. 1 Western reference. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

RAKUSAN, K.; JELINEK, J.; KORECKY, B.; SOUKUPOVA, M.; POUPA, O.

Postnatal development of muscle fibres and capillaries in the heart. *Physiol. Bohemosl.* 14 no.1:32-37 '65

CIA-RDP86-00513R000824610017-2"

4

CA

PROCESSES AND PROPERTIES INDEX

Chemical control of chromium-plating bath. JAN KOURECKÝ. *Chem. Abstr.* 6, 174-7, 204-5 (205 English) (1931).--The compn. of the Cr-plating bath is controlled carefully by detn. of individual components of the bath which are significant for the process. The CrO_3 content of the bath is obtained by sp. gr. detns. which are compiled in a chart in the range of 250-500 g. CrO_3 per l. at 15°. Cr^{VI} and Cr^{III} are detd. iodometrically or manometrically, the latter method being more rapid and convenient. Detn. of H_2SO_4 and Fe is very important, especially when the container is of Fe. The Cr-plating bath contains 250-400 g. CrO_3 , 35-50 g. Fe and 15-20 g. Cr_2O_3 per l. and H_2SO_4 equal to about 1% of the CrO_3 present.

JAN KOURECKÝ

ASAC-124 METALLURGICAL LITERATURE CLASSIFICATION

Handwritten: 26

Determination of the stability of varnish toward the action of motor fuel. Jan Kurecky. Chem. Zbor 8, 47-8 (1933).—Drop the fuel (25-30 drops per min.) on a small lacquered board and note the time at which the lacquered film starts to corrode. It is possible to detect by this test very small deviations in the stability of nitrocellulosic and special "motor fuel-proof" varnishes.
Jaroslav Kučera

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

SUBJECTS	SUBJECTS WITH ONE OR TWO	SUBJECTS	SUBJECTS
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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11V AND 2ND SERIES										14G AND 21H SERIES									
PROCESSES AND PROPERTIES INDEX																			
BC										B-II-8									
<p>Resistance of Inconel towards (liquid) fuel mixtures. H. R. Jones (Chem. Abstr. 1933, 8, 47-48; Chem. Revs., 1933, 1, 203).—Addition of 20% of NaOH to kerosene, and particularly of greater quantities of NaOH, increases corrosion. A. A. E.</p>																			
ASM-CIA METALLURGICAL LITERATURE CLASSIFICATION																			
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77

Chromium Plating of Moulds for Glass. Jan Kovacs (Abdullah Rashedy, 1933, 18, 23-24; *Chem. Zvest.*, 1934, 388, 11, 206).—Chromium-plated metal moulds give a much better finish to moulded glass articles and have a longer life than unplated moulds. The chromium layer should be 0.002-0.003 mm. thick with a 0.001 mm. thick undercoating of nickel; with 60-80 amp./dm.² at 35°-40°, the necessary chromium deposit is produced in 10-15 minutes.

—A. R. P.

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

70

M

Chemical Methods of Finishing the Surface of Metals. Jan Kurecky.
Chem. Abstr., 1940, 18, 178-180; *Chem. Zentr.*, 1941, 112, (11), 1280; *C. Abstr.*, 1944, 38, 10041. —(Metals to be treated chemically to provide a surface finish must first be thoroughly cleaned. Methods of cleaning are described. The changes produced in the surfaces of the following metals and alloys by the treatments mentioned are discussed: of iron and iron alloys by oxidation, the action of carbon and nitrogen, chromating and phosphatizing; of copper and copper alloys by treatment with K_2S , $NaOH$, Na_2SO_3 , and Pb acetate; of aluminium and aluminium alloys by oxidation by the Bauer-Vogel method; of zinc and zinc alloys by phosphatizing; and of magnesium and its alloys by chromating, phosphatizing, and treatment with selenium.)

AS 11-31A METALLURGICAL LITERATURE CLASSIFICATION

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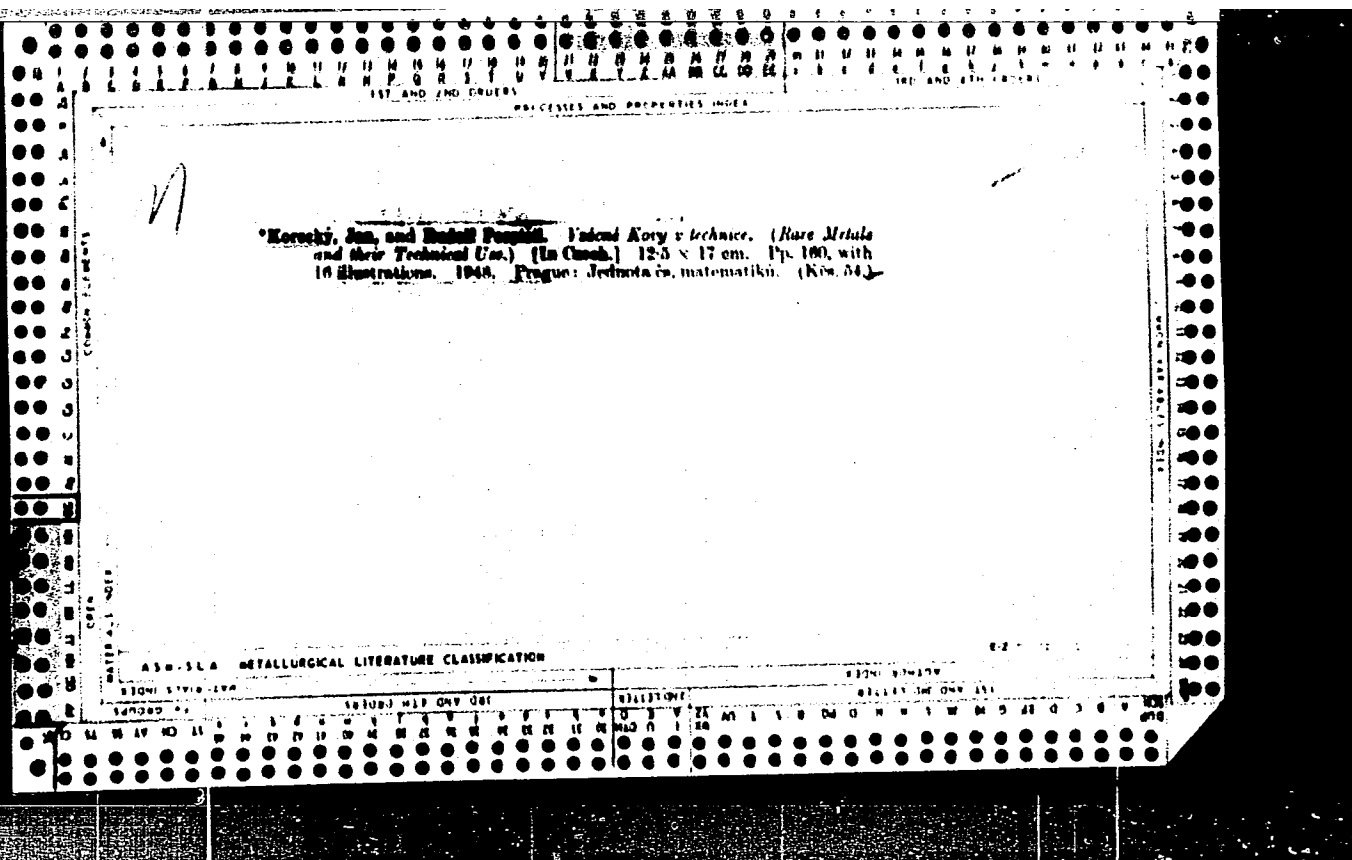
7

Progress in the nitriding of steel and cast iron (Jan Kinsell, *Chem. News* 10, 20-3(1941); *Chem. Week.* 1941, 11, 220). The nitriding of surfaces of steel and alloys, which occurs with nascent N derived from NH₃, usually, has been perfected along lines of lower working temps., smaller deformations of articles, harder surfaces which do not change below 500°. For the nitriding of alloy steels K. found Al 1, Cr 1, Ni 3.5, C 1.5, Cr 12, V 0.9 or Mo 0.9% suitable. For increasing the ductility of steel K. substituted Se for S. Besides sorbite steels K. was able to harden austenite steel with nascent N. The optimum temp. for hardening ranges from 510-520°. For an alloy containing C 2.4-2.5 (1.5% graphite 0.9% bound C) Si 2.4-2.5, Mn 0.5-0.7, S less than 0.07, Al 0.5-1.0, Cr 1.5-1.7, his eventually 0.5-0.8 and V eventually 0.15%.

K. nitrides the metal at 525-530° for 60 min., cools it to 210° in air and obtains a Brinell hardness of 300-320; by nitriding at 550° and cooling to 710° in air he obtains a hardness of 285-75; by nitriding at 550° and cooling to 700-85° he obtains a hardness of 450; the alloy remains brittle. Nitridation of other alloys is illustrated.

Frank Maresch

ATM 500 METALLURGICAL LITERATURE CLASSIFICATION



LIST AND NO. GROUPS										PROCESSES AND PROPERTIES INDEX										1ST AND 2ND GROUPS									
<p>B</p> <p>New Uses for Alkali Metals. (In Czech.) Jan Koresky. <i>Hutnické Listy</i>, v. 3, Mar. 1948, p. 80-81. Describes uses of Na and Li in deoxidation of alloy steels; various reactions with oxides of Fe, Ni, and Cr; and reactions of Li with H₂O, O₂, and CO.</p>																													
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1ST AND 2ND SERIES		PROCESSING AND PROPERTIES INDEX		3RD AND 4TH SERIES	
C A				1	
<p>Use of titanium in the chemical industry. (see Korotkiy, Chem. Obzr 22, 124-5 (1948)).—Phys. and chem. properties of Ti and its use in the construction of large app., in heating tubes, and counterflow coolers are described. Jan. Mich.</p>					
<p>ASG-51A METALLURGICAL LITERATURE CLASSIFICATION</p>					
1ST AND 2ND SERIES		3RD AND 4TH SERIES		5TH AND 6TH SERIES	
1ST AND 2ND SERIES		3RD AND 4TH SERIES		5TH AND 6TH SERIES	

C.A.

The rapid determination of sulfur in steel by the planochromatic method of Glasnov and Jirkovsky. Jan Kurecky and Josef Nejedlý. *Hutnická Listy* 5, 350-62(1957). Glasnov and Jirkovsky (C.A. 48, 2540b) have described a rapid method for detg. S in steel. An unknown wt. but known surface of the sample is exposed for a definite time to the action of HCl. The escaping gases are passed into a tube contg. a dil. acidic soln. of dimethyl-p-phenylenediamine chloride. After adding a little FeCl₃ the color is measured. The method was tried and more time was required for the evolution of H₂S than was stated in the original paper. The evolution of H₂S is very irregular if cast bars of the specimen are used. For these and other reasons, the conclusion is reached that the planochromatic method of G. and J. takes more time than the combustion procedure does.
E. Gross

KORECKY, JAN

Nickel plating without electric current as a stop-off when nitriding. Jan Korecky. *Hafnide Listy* 5, 414-16(1959). Expts. were carried out on the possibility of using chem. Ni deposition as protection to steel surfaces during nitriding. The nitriding Cr-Al steel (C 0.35, Mn 0.77, Cr 1.60, Al 1.06%) was made up into cylinders 12 mm. in diam. and 80 mm. long, with finely ground surfaces. The specimens were Ni-coated by the process described by Brenner (C.A. 41, 322) for obtaining dull surfaces. Coating times were 15, 30, and 60 min., resp. Nitriding at 490° for 48 hrs. followed the coating process. Hardness measurements were made after grinding off the Ni deposits. Coatings obtained by the above technique at 90° during 10 to 15 min. were thick enough to prevent the nitriding of the steel at 500° for as long as 48-60 hrs. Baths of different compositions and yielding bright Ni were tested also. Bright Ni deposits were less satisfactory. H. Gros

KORECKY, J.

24(2,4) PHASE I BOOK EXPLOITATION CZECH/2433

International Polarographic Congress. 1st, Prague, 1951

Shorník I. Mezinárodní polarografického sjezdu. Díl 3. Hlavní referáty přednesené na sjezdu. Procepsy... Vol. 3. Reviews referaty prednesene na sjezdu. Procepsy... Vol. 3. Reviews Read at the Congress. Praha, Pírovoedstvo vyd-vi (1952) 774 p. 2,000 copies printed.

Resp. Ed.: J. Korecký, Doctor; Chief Ed.: Publishing House: Milan Skalník, Doctor; Tech. Ed.: Oldřich Lunka.

PURPOSE: The book is intended for chemists, chemical engineers, and physiologists.

COVERAGE: The book is a collection of reviews and original papers read at the International Polarographic Congress held in Prague in 1951. Uses of polarography in organic and inorganic analysis, biochemistry, medicine, and industrial analysis are discussed. In the section, Reviews Read at the Congress, Russian and either German or English translations of each review are presented. In the section, Original Papers Read at the Congress, only those translations in Russian, German, and English which have not been published in Volume I are presented. The following scientists participated in the opening of the Congress: Professor Viltor Kmla, Dean of the Faculty of Sciences, Warsaw; Doctor Jaromír Dolanek, Minister of Planning; Professor Jaroslav Kurovsky, Chairman of the Congress; and Professor Jaroslav Kurovsky, Chairman of the Center for Scientific Research and Technical Development. References follow each paper.

Valenta, P. Study of Current Discontinuity Appearing on a Calomel Beam Electrode 377

Masek, J. Discontinuity on Polarographic Curves Observed in the Reduction of Some Inorganic Oxygen-containing Anions 382
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[English Translation]

Spalenska, M. Some Examples of Using Polarography in Industrial Laboratories 386
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Mozak, J. V. A. Determination of Phosphates [Russian Translation]
[German Translation] 433

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Komarek, K. Polarographic Determination of Small Amounts of Thorium 444

Korecky, J., P. Madenalsky, and E. Kaliba. Experience in the Use of the Polarographic Method in Steelmaking 455

Mojsis, J. Polarographic Determination of Manganese in a Triethanolamine Medium 461

Linhart, P. Polarographic Determination of Gold 464
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